

Our Docket No: 042390.P7835D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Wells et al.)	Examiner: Mai, Tan V. (Parent Case)
)	
Application No: Not Yet Assigned)	Art Unit: 2124 (Parent Case)
)	
Filed: Concurrently Herewith)	
)	
For: Secure Hardware Random Number)	
Generator)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form PTO-1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form PTO-1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

- ☒ (a) within three months of the filing date of the patent application, (b) within three months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 of the international application, or (c) before the mailing date of a first Office Action on the merits, or (d) before the mailing date of a First Office Action after the filing of a request for continued examination under § 1.114.
- ☐ **after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, and includes:
- ☐ the Certification under 37 C.F.R. § 1.97(e) (see "Certification" below).
- ☐ the fee of \$180 set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).
- ☐ **after** the mailing date of a final action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, and includes the Certification under 37 C.F.R. § 1.97(e) (see "Certification" below), a Petition requesting consideration of the Information Disclosure Statement (see "Petition" below), and the Petition Fee set forth in 37 C.F.R. § 1.17(i) (see "Fees" below).

Copies Of The References

- ☐ Copies of certain references listed on the enclosed Form PTO-1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 C.F.R. § 1.98(a)(3).
- ☐ A copy of the foreign search report is enclosed herewith.
- ☒ All references listed on the enclosed Form PTO-1449 were previously identified in the parent application of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 C.F.R. § 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 U.S.C. § 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1. 09/540,915	March 31, 2000		X	
2				
3.				

Other Applications

☐ The Examiner's attention is directed to the following U.S. patent application(s):

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

Certification

- ☐ The **undersigned attorney** hereby certifies that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- ☐ The **undersigned attorney** hereby certifies that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application or, to the knowledge of the attorney signing after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Petition

- ☐ The undersigned attorney hereby petitions the Commissioner to consider this Information Disclosure Statement and the references listed on the enclosed Form PTO-1449 in the examination of the above-identified patent application.

Fees

- ☒ **No fee** is owed by the applicant(s).
- ☐ The **IDS Fee of \$180.00** under 37 C.F.R. § 1.17(p) is enclosed herewith.
- ☐ The **Petition Fee of \$130.00** set forth in 37 C.F.R. § 1.17(i) is enclosed herewith.

Method Of Payment Of Fees

- ☐ Attached is a check in the amount of \$ 180.00
☐ Charge Deposit Account No. 02-2666 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)

Authorization To Charge Additional Fees

- ☒ If any additional fees are owed in connection with this communication, please charge Deposit Account No. 02-2666. (A duplicate copy of this communication is enclosed for that purpose.)

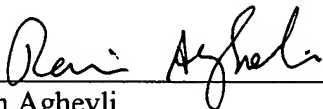
Instructions As To Overpayment

- ☒ Credit Account No. 02-2666.
☐ Refund

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: August 7, 2003



Ramin Aghevli
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EXPRESS MAIL CERTIFICATE OF MAILING

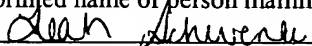
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Date of Deposit August 7, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, P.O. Box 1450, Alexandria, VA 22313-1450.

Leah Schwenke

(Typed or printed name of person mailing paper or fee)



(Signature of person mailing paper or fee)

Substitute for form 1449A/PTO

(use as many sheets as necessary)

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of

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Application Number

Filing Date

First Named Inventor

Steven E. Wells, et al.

Group Art Unit

Examiner Name _____

Attorney Docket Number

042890. P7835D

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code‡ (if known)			
		3790768		Chevalier et al.	02-05-1974	
		4578649		Shupe	03-25-1986	
		4694412		Domienik et al.	09-15-1987	
		4791594		Harney et al.	12-13-1988	
		4810975		Dias	03-07-1989	
		4855690		Dias	08-08-1989	
		5007087		Bernstein et al.	04-09-1991	
		5473692		Davis	12-05-1995	
		5539828		Davis	07-23-1996	
		5568552		Davis	10-22-1996	
		5627775		Hong et al.	05-06-1997	
		5706218		Hoffman	01-06-1998	
		5778070		Mattison	07-07-1998	
		5805712		Davis	09-08-1998	
		5835594		Albrecht et al.	11-10-1998	
		5844986		Davis	12-01-1998	
		6026016		Gafken	02-15-2000	
		6061702		Hoffman	05-09-2000	

[illegible]Date
Cons

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside this box → +

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
		Application Number			
		Filing Date			
		First Named Inventor		Steven E. Wells, et al.	
		Group Art Unit			
		Examiner Name		Not assigned	
		Attorney Docket Number		042390. P7835D	
Sheet	2	of	6		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Blum, M., "Independent Unbiased Coin Flips from a Correlated Biased Source – A Finite State Markov Chain," <i>Combinatorica</i> , Vol. 6, No. 2, pp. 97-108 (1986).	
		Chor, Benny, et al., "Unbiased Bits from Sources of Weak Randomness and Probabilistic Communication Complexity," <i>SIAM Journal on Computing</i> , Vol. 17, No. 2, pp. 230-261 (April 1988).	
		Cooper, J. Arlin, <i>Computer Security</i> , pp. 2072-2086 (published prior to March 31, 1999).	
		Fairfield, R.C., et al., "An LSI Random Number Generator (RNG)," published in <i>Proceedings in Advances in Cryptology Conference on CRYPTO</i> , pp. 203-215 (1984).	
		Gude, Michael, "Concept for a High Performance Random Number Generator Based on Physical Random Phenomena," <i>Frequenz</i> , 39, pp. 187-190 (July/August 1985).	
		Murry, Herschell F., "A General Approach for Generating Natural Random Variables," <i>IEEE Transactions on Computers</i> , pp. 1210-1213 (December 1970).	
		Santha, Miklós, et al., "Generating Quasi-Random Sequences from Slightly-Random Sources," <i>Proceedings of the 25th Annual Symposium on Foundations of Computer Science</i> , pp. 434-440 (October 24-26, 1984).	
		Santha, Miklós, et al., "Generating Quasi-random Sequences from Semi-random Sources," <i>Journal of Computer and System Sciences</i> , Vol. 33, No. 1, pp. 75-87 (August 1986).	
		von Neumann, John, "Various Techniques Used in Connection With Random Digits," <i>Applied Mathematics Series</i> , Vol. 12, United States Department of Commerce, National Bureau of Standards, pp. 36-38 (June 11, 1951).	
		Shift Registers, pp. 1725-1727 (published prior to March 31, 1999).	
		U.S. Patent Application No. 09/283,096, filed March 31, 1999, entitled DUTY CYCLE CORRECTOR FOR A RANDOM NUMBER GENERATOR, by Steven E. Wells and David A. Ward.	

Examiner Signature		Date Considered	
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

8

Complete if Known

Application Number

Filing Date

First Named Inventor

Steven E. Wells, et al.

Group Art Unit

Examiner Name

Not assigned

Attorney Docket Number

042390. P7836D

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTSExaminer
Initials*Cite
No. 1

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

7

U.S. Patent Application No. 09/283,769, filed March 31, 1999, entitled PROGRAMMABLE RANDOM BIT SOURCE, by Steven E. Wells.

Examiner Signature		Date Considered	
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	
				Filing Date	
				First Named Inventor	Steven E. Wells et al.
				Group Art Unit	
				Examiner Name	Not assigned
				Attorney Docket Number	042390-P78360
Sheet	4	of	8		

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Examiner Signature		Date Considered	
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<p>Substitute for form 1449B/PTO</p> <h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="margin: 0;">(use as many sheets as necessary)</p>		<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 50%;">Application Number</td><td style="width: 50%;"></td></tr><tr><td>Filing Date</td><td></td></tr><tr><td>First Named Inventor</td><td>Steven E. Wells, et al.</td></tr><tr><td>Group Art Unit</td><td></td></tr><tr><td>Examiner Name</td><td>Not assigned</td></tr><tr><td>Attorney Docket Number</td><td>042390. P78350</td></tr></table>		Application Number		Filing Date		First Named Inventor	Steven E. Wells, et al.	Group Art Unit		Examiner Name	Not assigned	Attorney Docket Number	042390. P78350
Application Number															
Filing Date															
First Named Inventor	Steven E. Wells, et al.														
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Examiner Name	Not assigned														
Attorney Docket Number	042390. P78350														
Sheet	5	of	8												

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		U.S. Patent Application No. 09/541,375, filed March 31, 2000, entitled RANDOM NUMBER GENERATOR WITH ENTROPY ACCUMULATION, by Steven E. Wells and David A. Ward.	
		U.S. Patent Application No. 09/752,088, filed December 29, 2000, entitled INTEGRATED CIRCUIT CHIP HAVING FIRMWARE AND HARDWARE SECURITY PRIMITIVE DEVICE(S), by Steven E. Wells and V. Niles Kynett.	

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	Steven E. Wells, et al.
				Group Art Unit	
				Examiner Name	Not assigned
Sheet	6	of	2	Attorney Docket Number	042890.P78350

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	
		Filing Date	
		First Named Inventor	Steven E. Wells, et al.
		Art Unit	
		Examiner Name	Not yet assigned
		Attorney Docket Number	042390-P78350
Sheet	2	of	2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 5828753	10-27-1998	Davis	
		US- 6209098 - B1	03-27-2001	Davis	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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